"HIMCO" STORE FRONT CONSTRUCTION

OF

SOLID ROLLED STAINLESS

(Non-Magnetic)

CHROME-NICKEL

Chromium 18% Nickel 8%

OR

STAINLESS STEEL

(Non-Magnetic) 18% Chromium—8% Nickel

BRONZE AND ALUMCRO

ALUMINUM ALLOY

ARCHITECTURAL EXTRUDED

BRONZE AND ALUMCRO

The HIMMEL BROTHERS Co.

NEW HAVEN, CONN.

1932

CATALOGUE C

THE HIMMEL BROTHERS CO.

Extruded and Rolled Solid Metal Store Front Construction

200 Commerce Street, NEW HAVEN, CONN.

DISTRIBUTED BY GLAZIERS THROUGHOUT THE COUNTRY

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Also Kickplates of Brass or Bronze.

A Complete "Himco" Line in either Extruded or Rolled Solid Metal

We offer to the architect a complete glass setting construction either in architectural extruded sections for the highest quality store fronts, or in rolled solid metals for medium priced work.

We do not erect these constructions but the sections are stocked by reputable glaziers throughout the country and are generally erected through the glaziers, plate glass manufacturers, or setters.

The Essential Elements for Satisfactory Store Front Construction

The principal factor in satisfactory glass setting construction is in holding the glass in a cushion-like grip which counteracts shocks from wind or vibration and yet provides for expansion and contraction.

The setting member must be so arranged that it is possible to set and remove glass in a minimum amount of time in case of accident as well as in first erection. It must be a simple, quickly erected construction with a maximum amount of glass protection, with reduced labor charges.

Modern Metals for Glass Settings

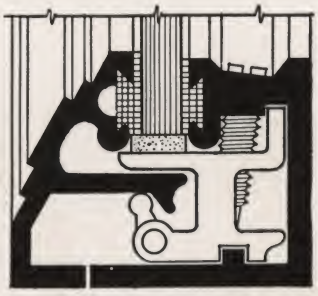
"Himco" Glass Settings are made in the following types of non-ferrous metals:

Extruded Metals—"Alumcro" (aluminum alloy) and bronze.

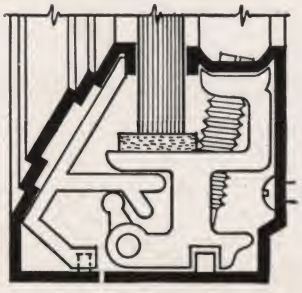
Rolled Solid Metals—Stainless Chrome-Nickel (chromium 18%, nickel 8%); Stainless Steel, 18-8; "Alumcro" (aluminum alloy); bronze; also copper on special order.

General Information Pertaining to Stainless Chrome-Nickel 18-8%

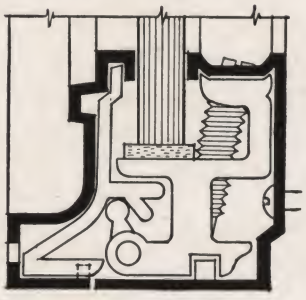
All Stainless Steel 18-8% is non-magnetic, non-tarnishable and rustproof. It can easily be detected by using a regular magnet which can be secured from any hardware store to verify if same is genuine 18-8 Chrome-Nickel or straight Chrome. Straight Chrome is magnetic and will magnet a certain amount of iron dust which is constantly flowing with the air and will settle on the Stainless thus causing a film of rust, whereas on the genuine Stainless 18-8 Chrome-Nickel which is non-magnetic said iron rust will not collect or stick to the Chrome-Nickel 18-8 therefore making it a superior metal over any other Stainless that is on the market.



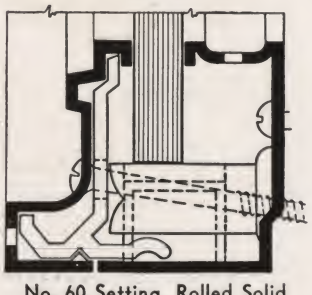
No. 404 Architectural Extruded Bronze Setting



No. 70 Setting, Rolled Solid Metal



No. 80 Setting, Rolled Solid Metal



No. 60 Setting, Rolled Solid Metal

The No. 400 Store Front Construction of Architectural Extruded Sections with the Cushion Glass Grip (Patented)

For the very finest type of modern store fronts. Glass settings can be supplied separately for cast bronze or aluminum alloy by others. The positive screw flange control (patented) eliminates all exposed screws and the rubber cushions or gaskets prevent glass breakage.

Rolled Solid Metal Glass Settings

These settings are equally as efficient as the extruded sections, in regard to glass protection but cost considerably less.

The No. 70 Glass Setting (Patented)—This is our newest modern design based on the No. 404 setting, but in rolled solid metals and having the same type of positive screw flange control, eliminating all exposed screws.

The No. 80 Glass Setting (Patented)—This construction has a screw flange control similar to No. 70 and does not have exposed screws. The design is similar to the No. 60 in face section.

The No. 60 Glass Setting (Patented)—The setting screws pass through a metal tube from the front to the back member assuring freedom from contact between the glass and the screw.

Finishes

The standard finish for bronze is polished or natural finish. Special finishes such as statuary bronze can also be supplied.

"Alumcro" supplied in natural and polished finish. Stainless Chrome-Nickel or Stainless Steel supplied in polished finish. Copper supplied on order in natural polished, statuary copper and oxidized copper.

Satin finish supplied on all metals.

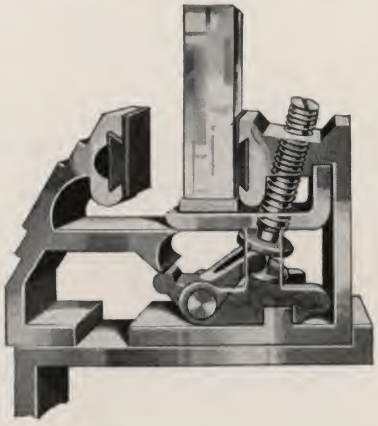
"HIMCO" NO. 400 STORE FRONT CONSTRUCTION

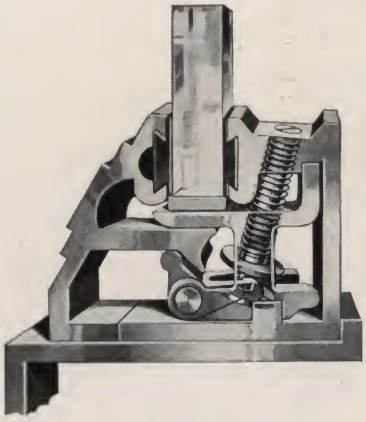
PATENTED

ARCHITECTURAL EXTRUDED "ALUMCRO" (Aluminum Alloy) AND BRONZE

A New Modern Improved "Himco" Invisible Screw Cushion Type, Extruded Setting (Patented)

The illustrations below show how radical is the new method of setting glass. Composed entirely of extruded shapes the new "Himco" No. 400 sections offer an entirely new feature in rigid store front constructions. In the old No. 400 setting the glass was held in a steady but velvet like grip by means of the rubber cushions, yet allowing the glass to expand and contract, and by the concealed adjusting screw. The new section is an even greater improvement over the old both in design as well as in the method of securing the glass by the new positive setting screw. The cushions are of the finest rubber.



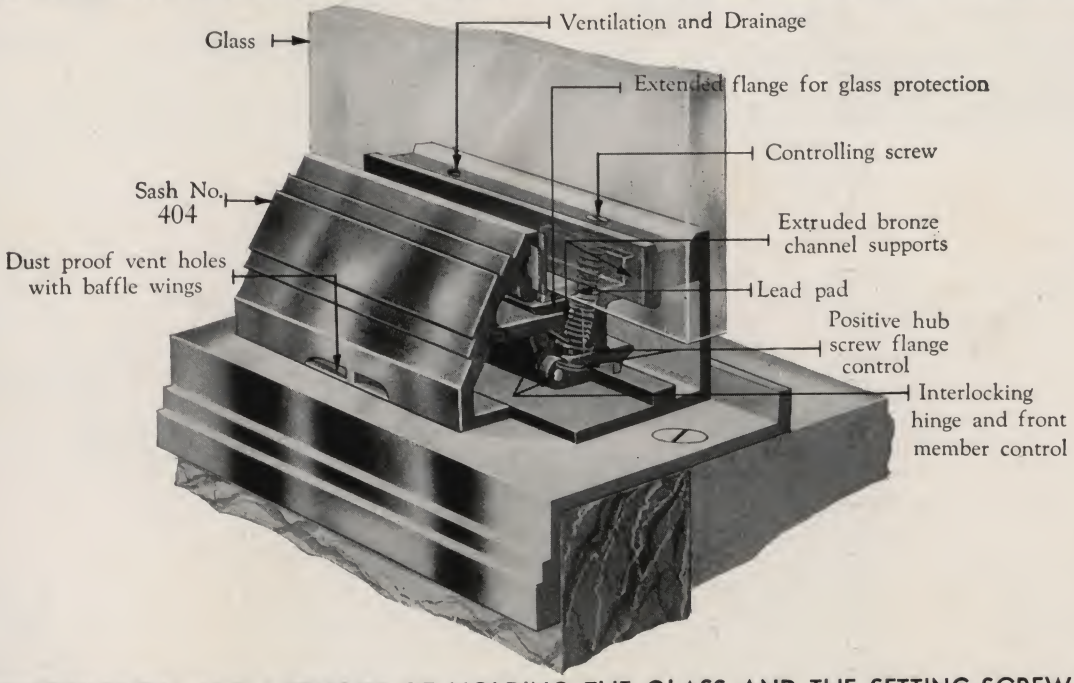


No Screws Show on the Face of the Setting

The setting consists of only two shapes, the front and back plates. By means of an indirect draw, acting on the interlocking members of extruded metals, glass set in "Himco" No. 404 setting is held more firmly than in the old type and less pressure is exerted on the glass. The setting screws, which cannot work loose, are also more available for setting the glass yet invisible from the exterior of the construction giving the appearance of strictly architectural cast construction.

The two sections at full size below illustrate the method by which the extruded lever arms are operated by means of this set screw. It is impossible for this screw to work loose, on account of vibration from the street, thus reducing tightening supervision necessary for many old types of construction.

FULL SIZE SECTIONS THROUGH GLASS SETTING SHOWING OPERATION OF THE SETTING SCREWS



CONSTRUCTION AND METHODS OF HOLDING THE GLASS AND THE SETTING SCREW

The Any Angle Extruded Corner Construction

The new lock gear type of corner construction allows the use of a universal section for any angles of 5 degrees desired. By locking the two center members together the wing pieces of the corner are made absolutely rigid. The only part which changes is the back spring grip. This is shipped to fit the correct angle desired.

Extruded Metals

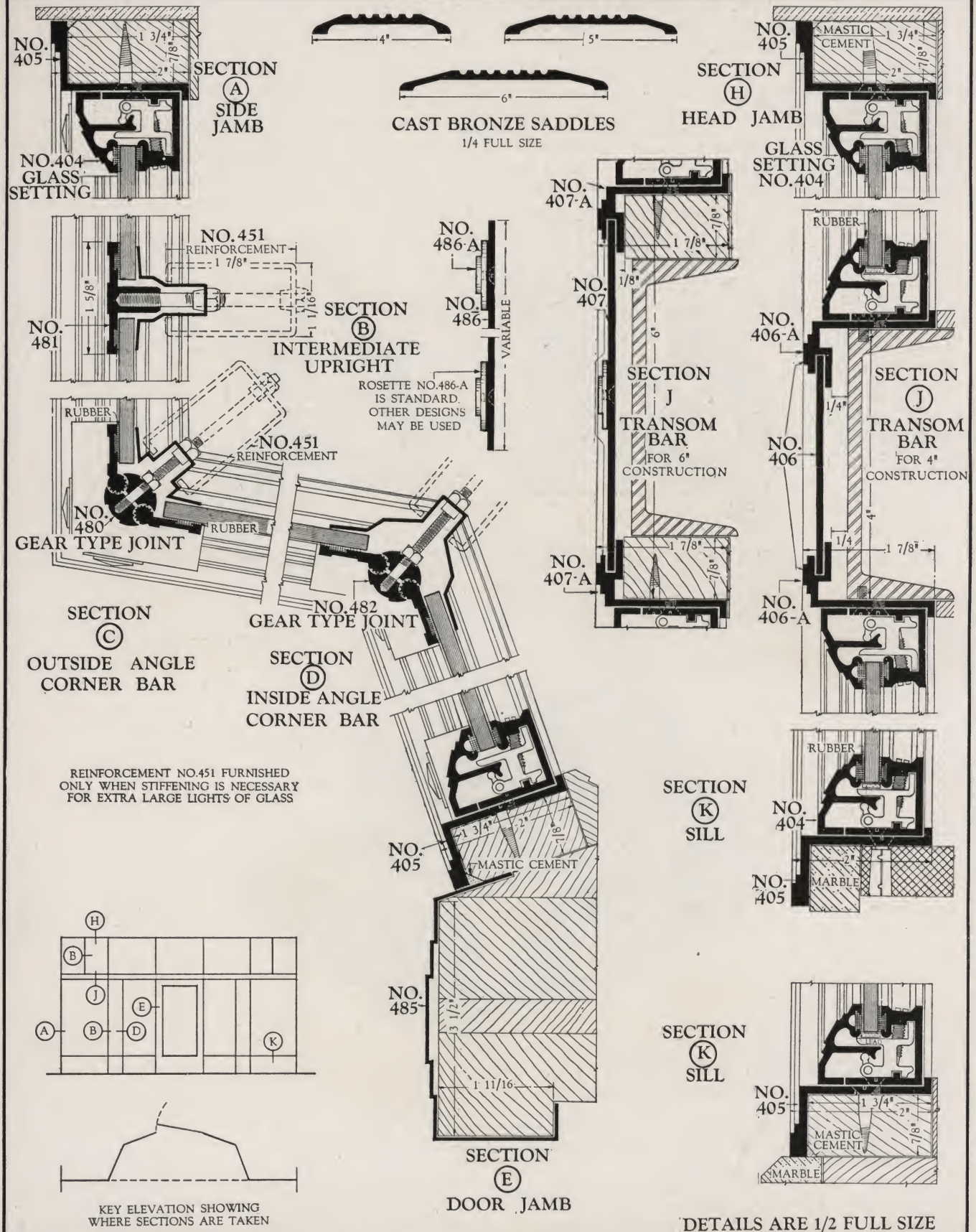
"Himco" No. 400 construction is made either in "Alumcro" (aluminum alloy) or in bronze. It is impossible to make this section in extruded Stainless Chrome-Nickel (chromium 18%—nickel 8%) or genuine Stainless Steel. If a white metal is desired we suggest using "Alumcro" made under our own direction which will stay bright and take a high polish.

In Specifying—We suggest that our glass settings be included for use with all cast bronze stone front construction, for the protection and easy accessibility of installing the glass, whether the work is done by an ornamental bronze contractor or the entire front is of our section. These sections have been designed and made by experts specializing in the protection of plate glass in window constructions for many years. We will be only too glad to advise with any architect or bronze contractor as to the best methods of using the sections with their types of special construction. Many times on account of incorrect detailing of the show windows, it is very hard to install plate glass at the building. This causes high labor charges and disatisfaction and misunderstandings arising between the owner and the architect and contractor.

"HIMCO" NO. 400 STORE FRONT CONSTRUCTION

EXTRUDED, ARCHITECTURAL SECTIONS OF "ALUMCRO" AND BRONZE
(ALUMINUM ALLOY)

400/1



"HIMCO" NO. 70 STORE FRONT CONSTRUCTION

PATENTED

THE NEW, INEXPENSIVE MODERN GLASS SETTING WITHOUT EXPOSED SCREWS

Made in Rolled Solid "Alumcro" (aluminum alloy) and Bronze. Made in Copper only on Special Order

A New Design of Modern Trend

The new "Himco" No. 70 has been designed along the lines desired in the most modern types of buildings. An effort has been made to reduce the depth of the entire construction to the least possible dimension. Flat surfaces, rather than projecting mouldings, allow the glass to be set almost on the building line, when this condition is desired. The smooth plain faces without visible fastenings also gives the effect of an extruded or cast construction.

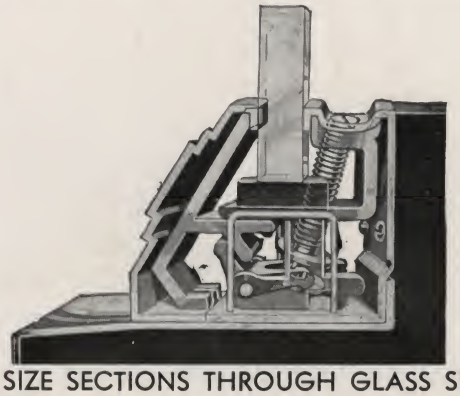
A New Type Positive Setting Without Exposed Screws

"Himco" No. 70 glass setting is similar in principle to the "Himco" No. 404 setting—in that all screws on the face of the construction are eliminated. This new setting is absolutely positive in action and the screw will not work loose by street vibrations.

By means of an indirect draw acting with a lever on interlocking members of extruded bronze, glass is held more firmly than in the exposed screw type sash, though less pressure is exerted on the glass. This permits the window to give to vibration and atmospheric changes, thus reducing the danger of breakage from exterior causes. The glass is further protected by the use of leather cushions on a stationary extended flange. This flange, part of the solid controlling base, safeguards the glass from contact with moving parts.

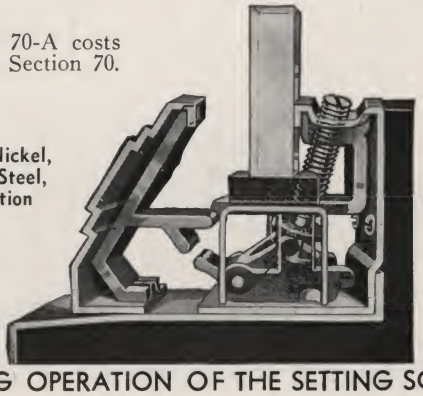
Displays Remain Clean Longer

As the new sash is set squarely on the sill no matter what thickness of glass used, it reduces the possibility of infiltration of dust to the inside. The baffle wings behind the exterior vents also help to divert dust yet allow ventilation. They eliminate dust slides.

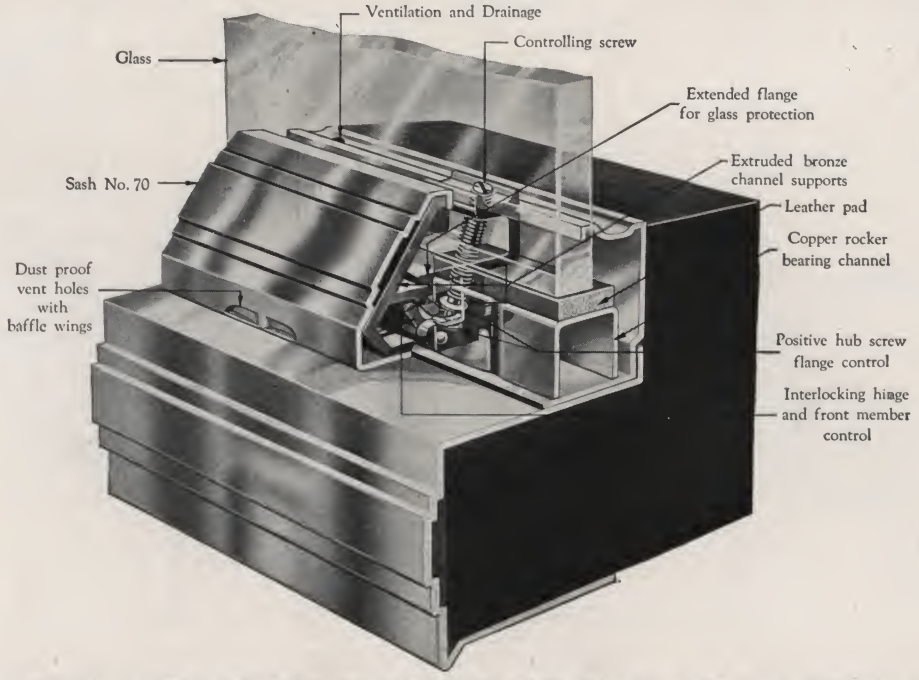


Note: Section 70-A costs slightly less than Section 70. See Plate 70-1.

Stainless Chrome-Nickel, 18-8, or Stainless Steel, 18-8, on Application to Order



FULL SIZE SECTIONS THROUGH GLASS SETTING SHOWING OPERATION OF THE SETTING SCREW

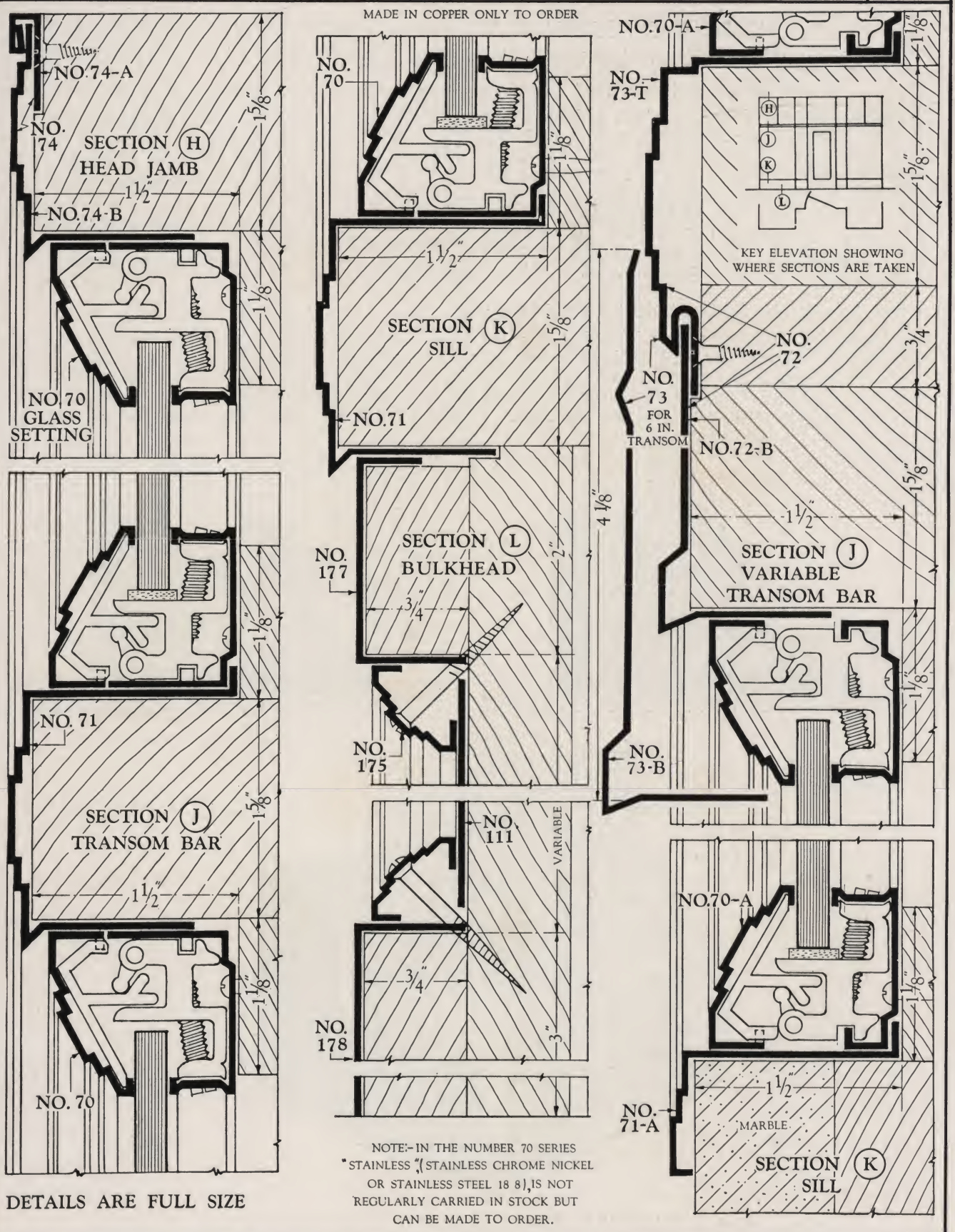


CONSTRUCTION AND METHODS OF HOLDING THE GLASS AND THE SETTING SCREW

"HIMCO" NO. 70 STORE FRONT CONSTRUCTION

ROLLED, SOLID, "ALUMCRO" AND BRONZE — STAINLESS STEEL ON APPLICATION
(ALUMINUM ALLOY)

70/1



DETAILS ARE FULL SIZE

NOTE:- IN THE NUMBER 70 SERIES "STAINLESS" (STAINLESS CHROME NICKEL OR STAINLESS STEEL 18 8), IS NOT REGULARLY CARRIED IN STOCK BUT CAN BE MADE TO ORDER.

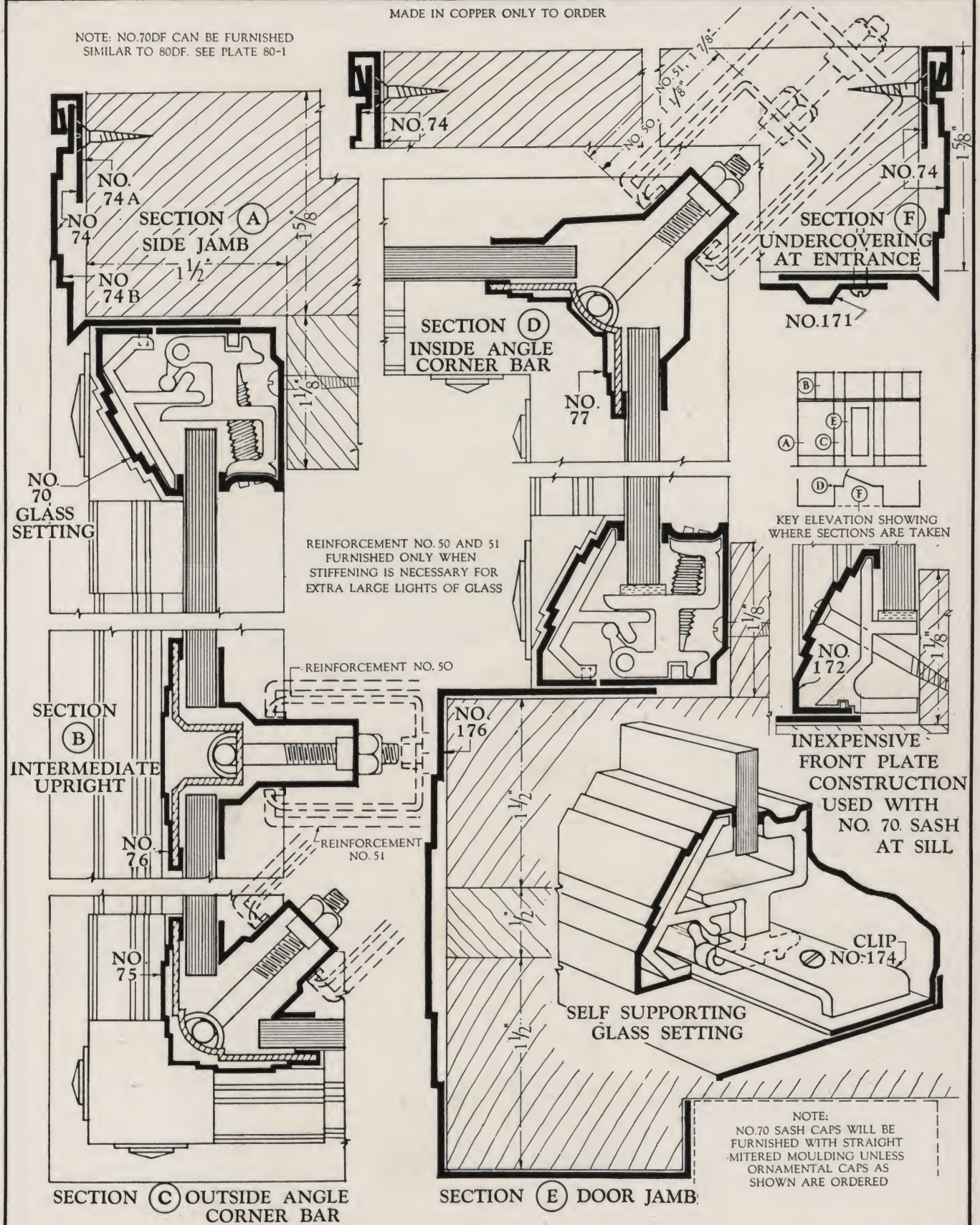
"HIMCO" NO. 70 STORE FRONT CONSTRUCTION

ROLLED, SOLID, "ALUMCRO" AND BRONZE—STAINLESS STEEL ON APPLICATION
(ALUMINUM ALLOY)

70/2

MADE IN COPPER ONLY TO ORDER

NOTE: NO. 70DF CAN BE FURNISHED SIMILAR TO 80DF. SEE PLATE 80-1



"HIMCO" NO. 80 STORE FRONT CONSTRUCTION

PATENTED

ROLLED SOLID STAINLESS CHROME-NICKEL (Chromium 18%, Nickel 8%), "ALUMCRO" (Aluminum Alloy) AND BRONZE

Copper Made Only on Special Order

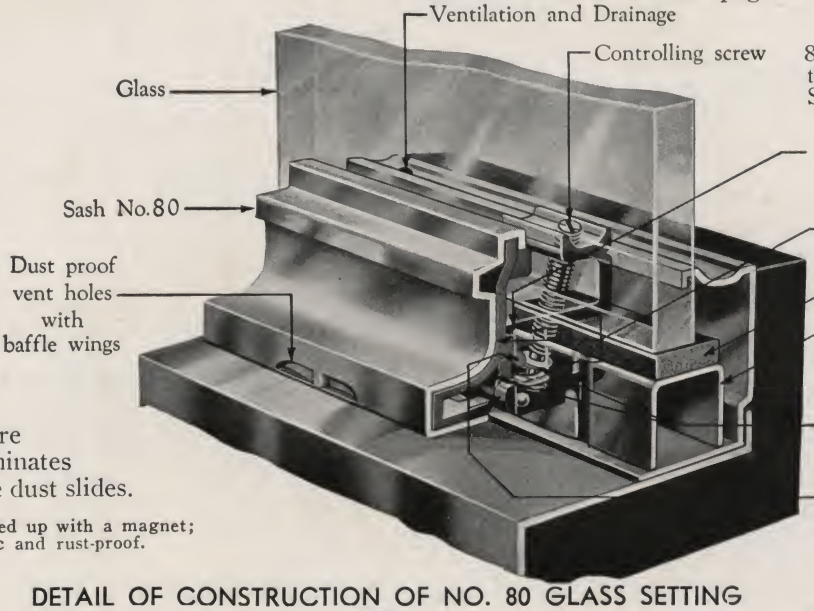
The particular advantage of this section is that it can be obtained in Rolled Solid Stainless Chrome-Nickel (chromium 18%—nickel 8%).* On account of the hardness and non-corrosive character of this metal, the slight extra cost more than offsets the reduced cost of upkeep. The metal will withstand the corrosive action of acids and smoke. Its surface is impervious to atmospheric conditions and will always retain its high polish and brilliance. This section is also produced in rolled solid "Alumcro" (aluminum alloy), and bronze.

This glass setting is similar in construction to The No. 70 setting except that the design of the profile is different. It is a vast improvement over our No. 60 setting, the details of which are also shown on page 12. The new No. 80 has no screws on the face of the setting. The setting is absolutely positive in action and the screw will not work loose by vibration from the street.

The action of the indirect draw, acting with a lever, on interlocking members of extruded bronze is the same as that illustrated on page 5.

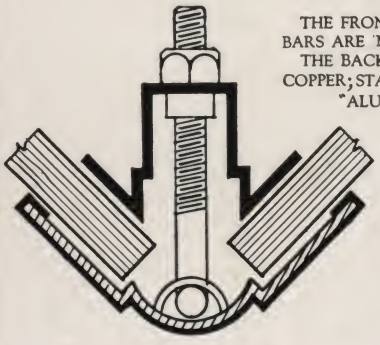
Ventilation and Condensation—There is a direct system of ventilation on all sides of the glass setting. The front vent holes indicated on the drawings have dust-proof baffle wings which prevent direct drafts and dust from entering show windows due to wind pressure or storms. This eliminates the use of troublesome dust slides.

* This metal cannot be picked up with a magnet; it is therefore non-magnetic and rust-proof.



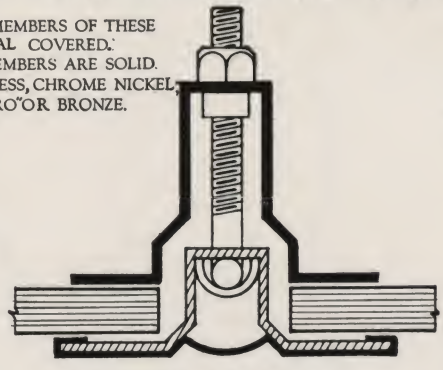
Note: Section No. 80-A costs slightly less than Section No. 80. See Plate 80-1.

DETAIL OF CONSTRUCTION OF NO. 80 GLASS SETTING



CORNER BAR NO. 41

THE FRONT MEMBERS OF THESE BARS ARE METAL COVERED. THE BACK MEMBERS ARE SOLID COPPER; STAINLESS, CHROME NICKEL, "ALUMCRO" OR BRONZE.

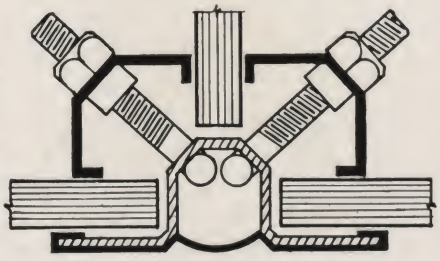


DIVISION BAR NO. 45

REVERSE BAR NO. 42

Corner Bars—These are made to fit any angle of glass setting desired. The patented method of bolting together the outer and inner sections, eliminates the use of clips, one of the commonest causes of glass breakage.

The bar constructions not only permit glass of varying thicknesses to be joined but provide equal pressure on both pieces of glass.



3-WAY BAR NO. 48

Construction of Corner—The corners are formed up of rolled steel sections to give rigidity and strength and are bronze plated. The sections exposed to the weather are covered with rolled copper, bronze, Stainless Chrome-Nickel or "Alumcro."

Use of Corner Bars—The rolled steel corner bars are used interchangeably with either the No. 60, 70 or 80 type of setting.

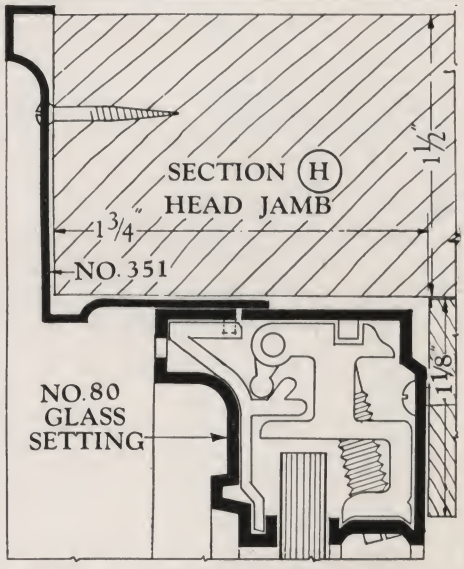
FULL SIZE DETAILS OF CORNER AND DIVISION BARS

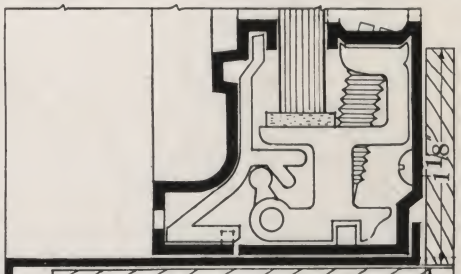
"HIMCO" NO. 80 STORE FRONT CONSTRUCTION

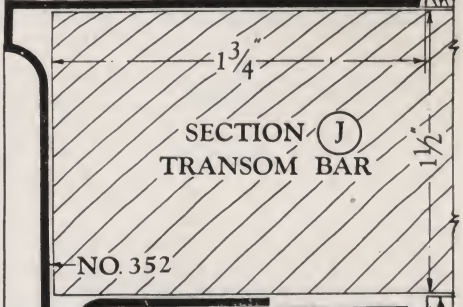
ROLLED, SOLID, STAINLESS, CHROME-NICKEL, "ALUMCRO" AND BRONZE
(CHROMIUM 18%) (NICKEL 8%) (ALUMINUM ALLOY)

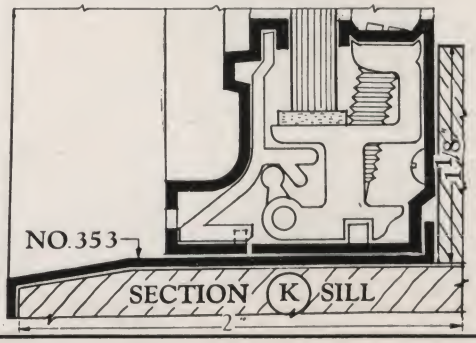
80/1

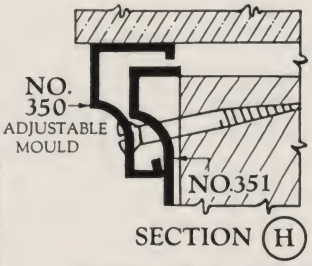
MADE IN COPPER ONLY TO ORDER



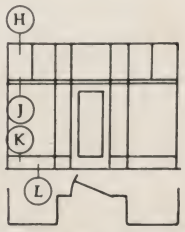




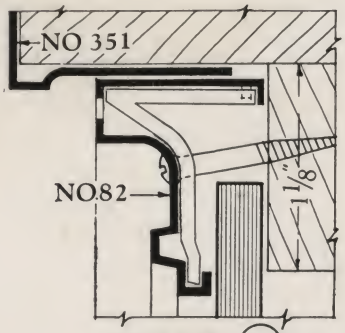




SHOWING USE OF ADJUSTABLE MOULD NO. 350

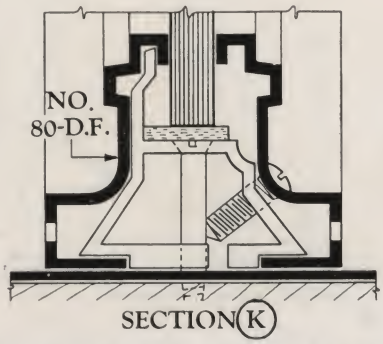


KEY ELEVATION SHOWING WHERE SECTIONS ARE TAKEN

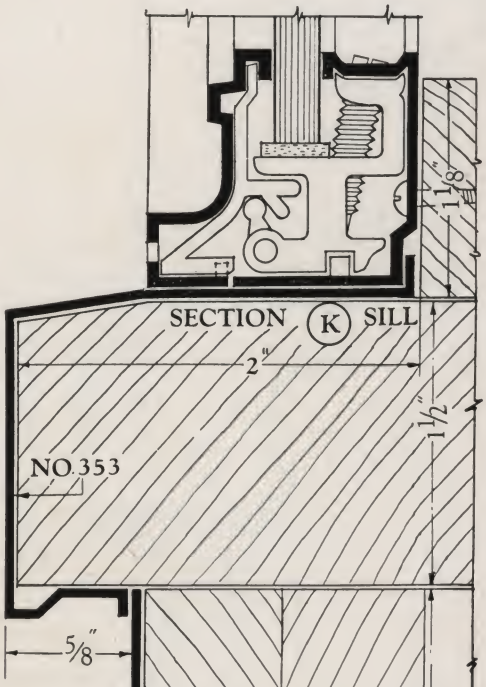


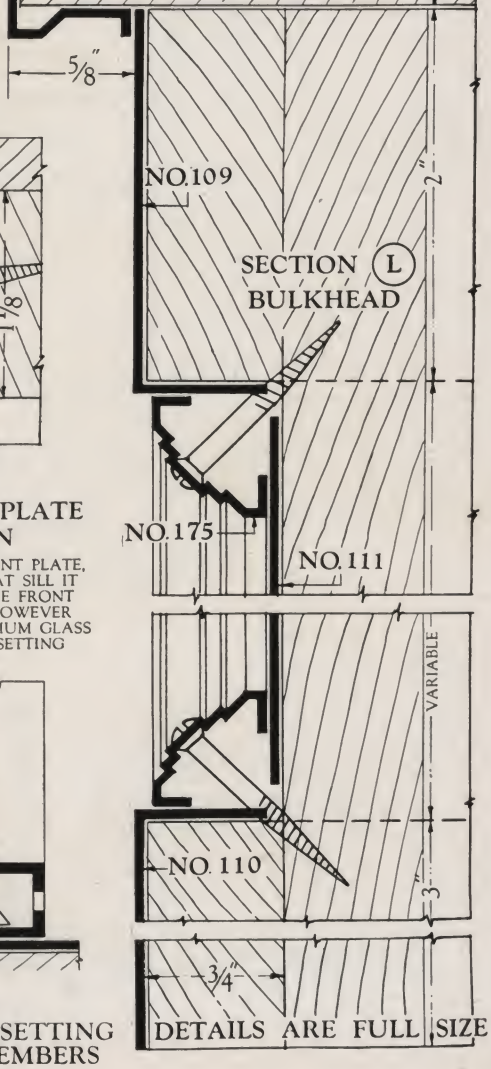
INEXPENSIVE FRONT PLATE CONSTRUCTION

DETAIL ABOVE SHOWS NO.82 FRONT PLATE, WHEN USED WITH NO.80 SASH AT SILL IT PROVIDES AN INEXPENSIVE STORE FRONT CONSTRUCTION. IT DOES NOT HOWEVER AFFORD VENTILATION. FOR MAXIMUM GLASS PROTECTION USE NO.80 GLASS SETTING



FREE STANDING GLASS SETTING IN DOUBLE FACED MEMBERS



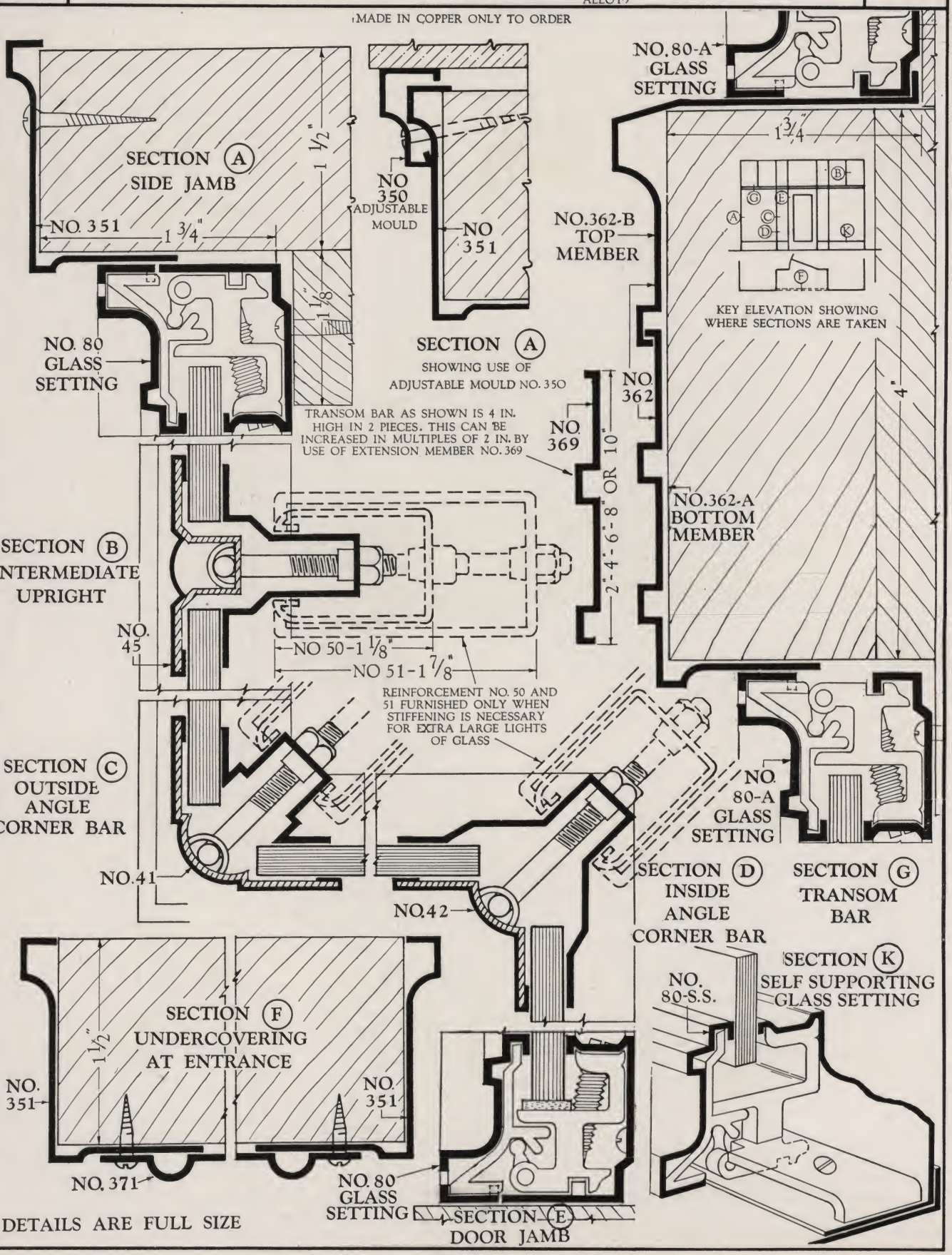


"HIMCO" NO. 80 STORE FRONT CONSTRUCTION

ROLLED, SOLID, STAINLESS, CHROME-NICKEL, "ALUMCRO" AND BRONZE
(CHROMIUM 18%) (NICKEL 8%) (ALUMINUM ALLOY)

80/2

MADE IN COPPER ONLY TO ORDER



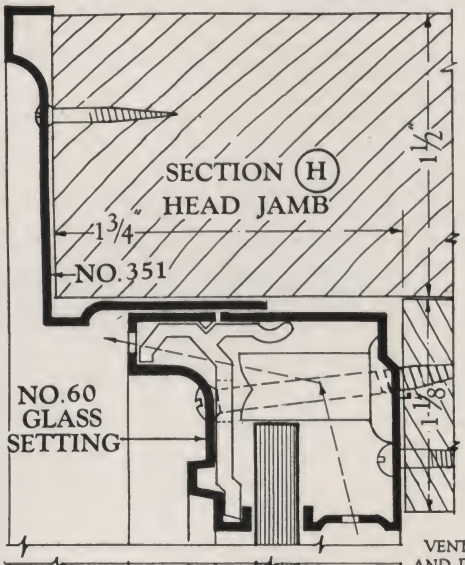
DETAILS ARE FULL SIZE

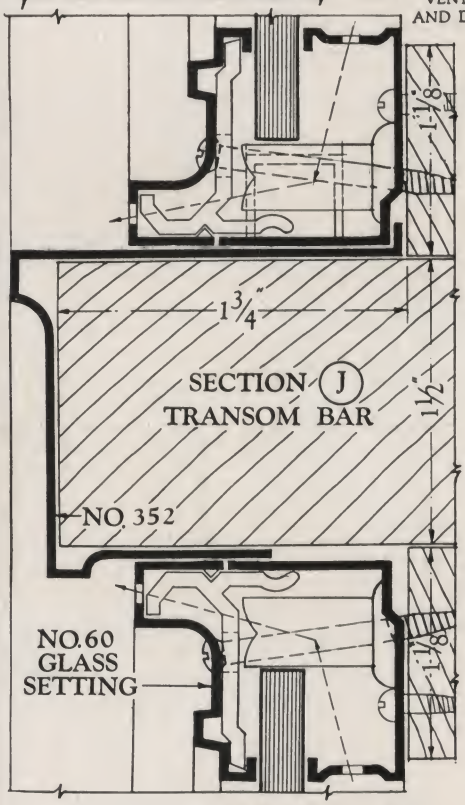
"HIMCO" NO. 60 STORE FRONT CONSTRUCTION

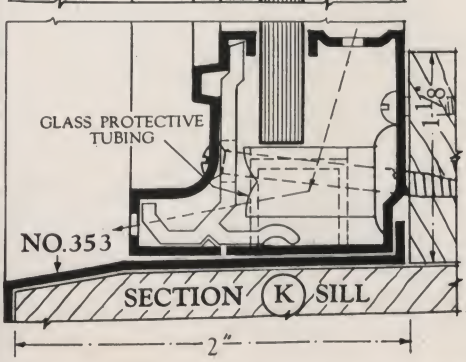
ROLLED, SOLID, STAINLESS, CHROME-NICKEL, "ALUMCRO" AND BRONZE
(CHROMIUM 18%) (NICKEL 8%) (ALUMINUM ALLOY)

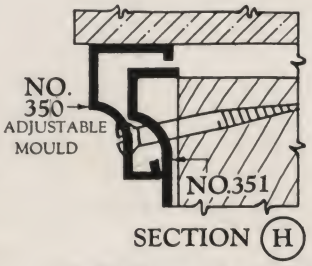
60/1

MADE IN COPPER ONLY TO ORDER

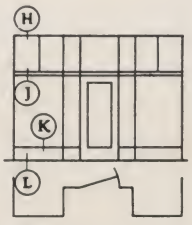




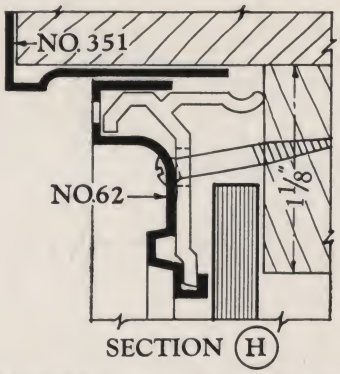




SHOWING USE OF ADJUSTABLE MOULD NO.350

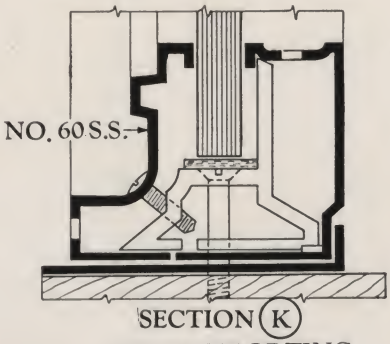


KEY ELEVATION SHOWING WHERE SECTIONS ARE TAKEN

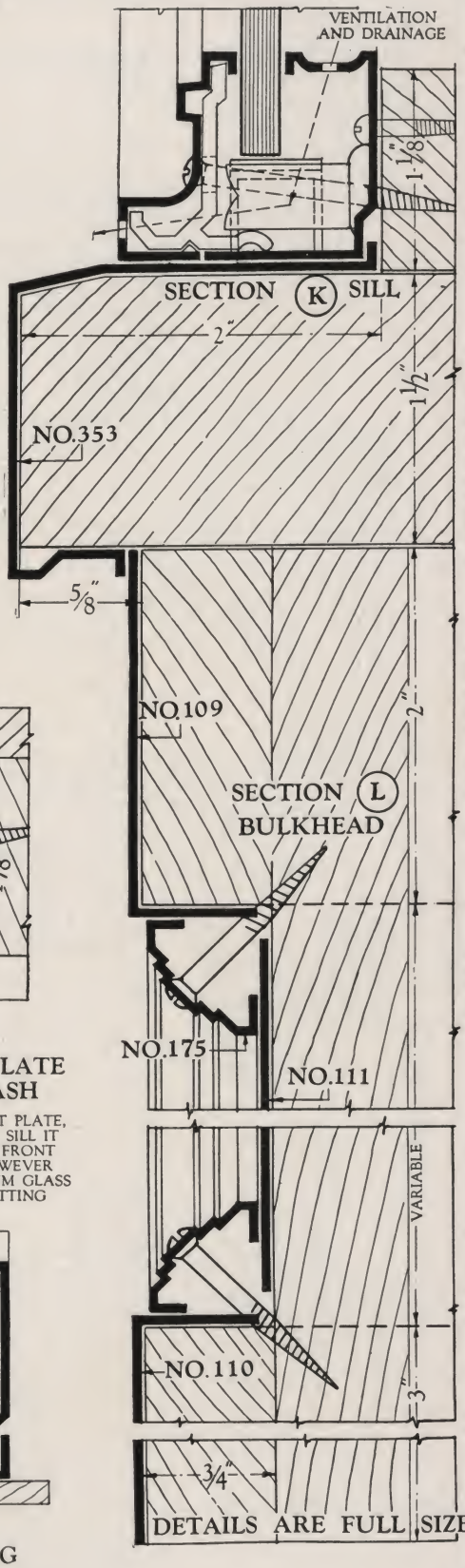


INEXPENSIVE FRONT PLATE USED WITH NO. 60 SASH

DETAIL ABOVE SHOWS NO.62 FRONT PLATE, WHEN USED WITH NO.60 SASH AT SILL IT PROVIDES AN INEXPENSIVE STORE FRONT CONSTRUCTION. IT DOES NOT HOWEVER AFFORD VENTILATION. FOR MAXIMUM GLASS PROTECTION USE NO.60 GLASS SETTING



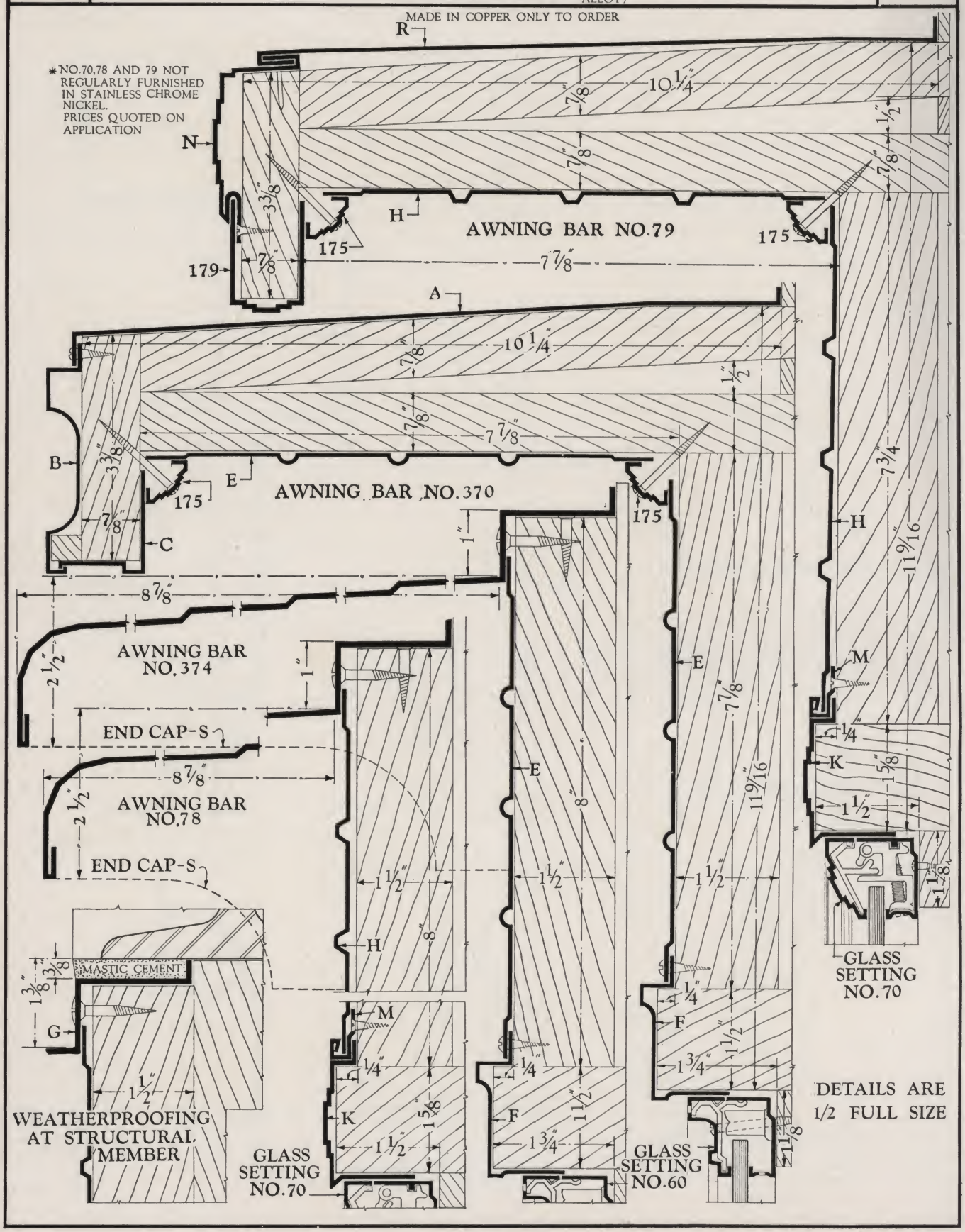
SELF SUPPORTING GLASS SETTING



"HIMCO" NO 60, 70*80, STORE FRONT CONSTRUCTION

ROLLED, SOLID, STAINLESS, CHROME-NICKEL, "ALUMCRO" AND BRONZE
(CHROMIUM 18%) (NICKEL 8%) (ALUMINUM ALLOY)

60-70-80
3

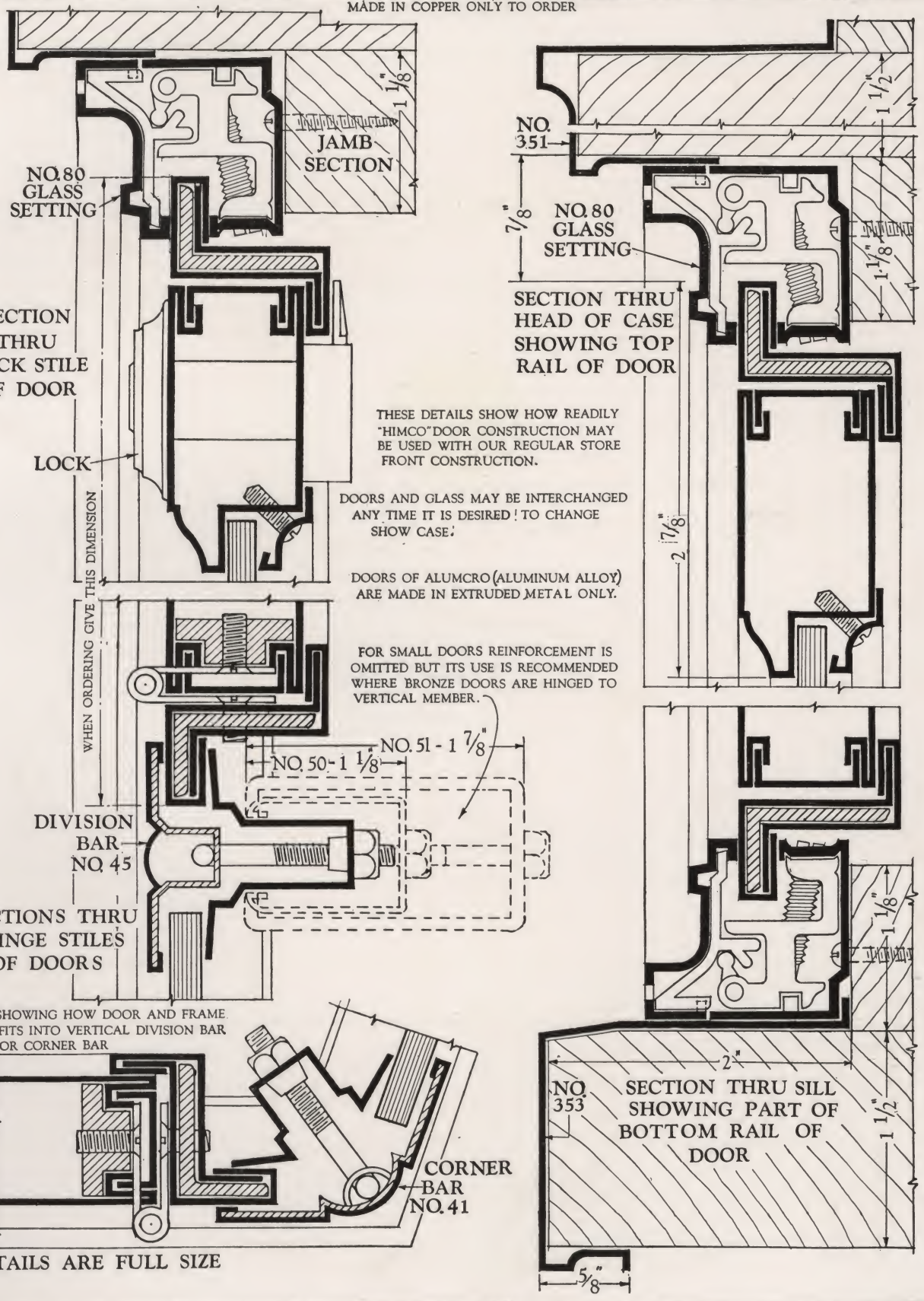


"HIMCO" SHOW CASE CONSTRUCTION

ROLLED, SOLID, STAINLESS CHROME-NICKEL, "ALUMCRO" AND BRONZE
(CHROMIUM 18%) (NICKEL 8%) (ALUMINUM ALLOY)

80/3

MADE IN COPPER ONLY TO ORDER



THESE DETAILS SHOW HOW READILY "HIMCO" DOOR CONSTRUCTION MAY BE USED WITH OUR REGULAR STORE FRONT CONSTRUCTION.

DOORS AND GLASS MAY BE INTERCHANGED ANY TIME IT IS DESIRED TO CHANGE SHOW CASE.

DOORS OF ALUMCRO (ALUMINUM ALLOY) ARE MADE IN EXTRUDED METAL ONLY.

FOR SMALL DOORS REINFORCEMENT IS OMITTED BUT ITS USE IS RECOMMENDED WHERE BRONZE DOORS ARE HINGED TO VERTICAL MEMBER.

"HIMCO"

STAINLESS METAL STORE FRONT CONSTRUCTION

THE HIMMEL BROTHERS CO. · · · NEW HAVEN, CONN.

"HIMCO"

STAINLESS METAL STORE FRONT CONSTRUCTION

THE HIMMEL BROTH IN.

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